



# NEIL3 Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-01893                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reactivity</b>                  | Human;Mouse                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>                | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>                   | NEIL3                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human NEIL3. AA range:491-540                                                                                                                                                                                                                                                                                           |
| <b>Specificity</b>                 | NEIL3 Polyclonal Antibody detects endogenous levels of NEIL3 protein.                                                                                                                                                                                                                                                                                                                       |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                       |
| <b>Dilution</b>                    | WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>                    | DNA glycosylase FPG2;DNA glycosylase/AP lyase Neil3;EC:3.2.2.-; Endonuclease 8 like 3;Endonuclease 8-like 3;NEIL3;Endonuclease VIII-like 3; Nei-like protein 3                                                                                                                                                                                                                              |
| <b>Observed Band</b>               | 35kD                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Calculated Molecular Weight</b> | 35kD                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cell Pathway</b>                | Nucleus . Chromosome . Recruited to replication stress sites via interaction with ubiquitinated CMG helicase. .                                                                                                                                                                                                                                                                             |
| <b>Tissue Specificity</b>          | Expressed in keratinocytes and embryonic fibroblasts (at protein level). Also detected in thymus, testis and fetal lung primary fibroblasts.                                                                                                                                                                                                                                                |
| <b>Function</b>                    | function:Reports about DNA glycosylase activity are contradictory. The protein lacks a proline residue at the N-terminus that is the active site residue found in the other members of the FPG family.,similarity:Belongs to the FPG family., similarity:Contains 1 FPG-type zinc finger.,similarity:Contains 1 RanBP2-type zinc finger.,tissue specificity:Detected in thymus and testis., |
| <b>Background</b>                  | NEIL3 belongs to a class of DNA glycosylases homologous to the bacterial Fpg/ Nei family. These glycosylases initiate the first step in base excision repair by cleaving bases damaged by reactive oxygen species and introducing a DNA                                                                                                                                                     |



strand break via the associated lyase reaction (Bandaru et al., 2002 [PubMed 12509226]).[supplied by OMIM, Mar 2008],

**matters needing attention**

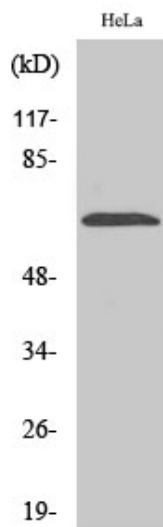
Avoid repeated freezing and thawing!

**Usage suggestions**

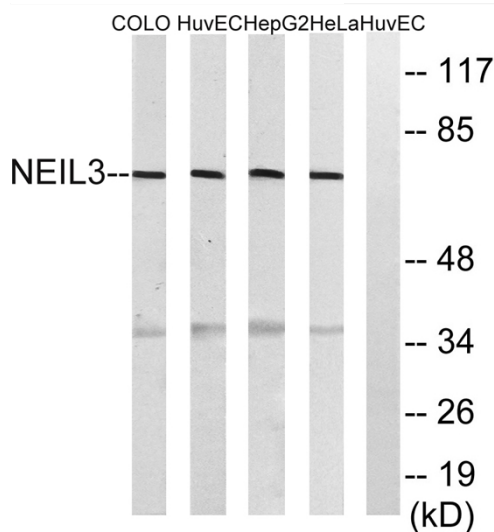
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



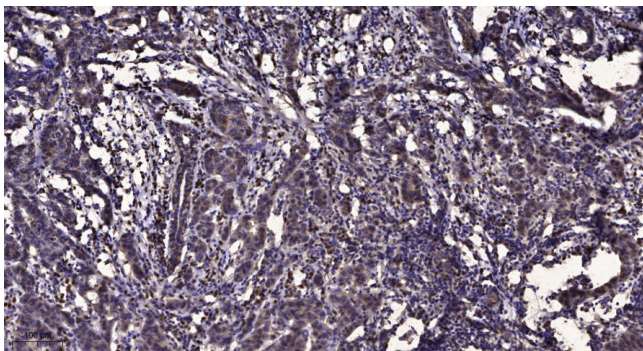
## Products Images



Western Blot analysis of various cells using NEIL3 Polyclonal Antibody diluted at 1:2000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western blot analysis of lysates from HeLa, HepG2, HUVEC, and COLO cells, using NEIL3 Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200 (4° overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45 min).